

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P574906

Luminaire Tested: **EPH-VN-08-750-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

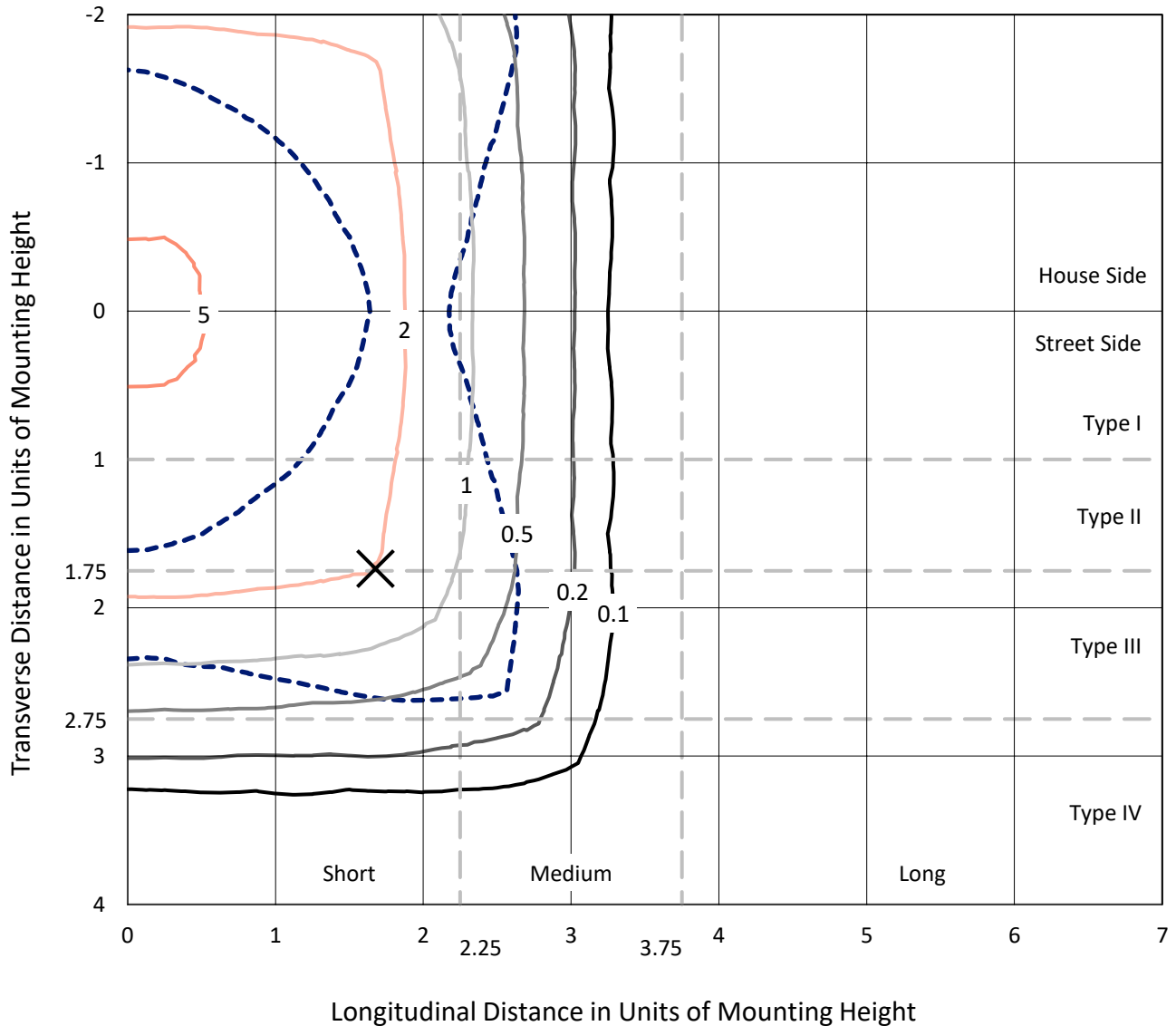
Lumens per Lamp: N/A
Luminaire Lumens: 57560.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P574906
 CATALOG NUMBER: EPH-VN-08-750-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

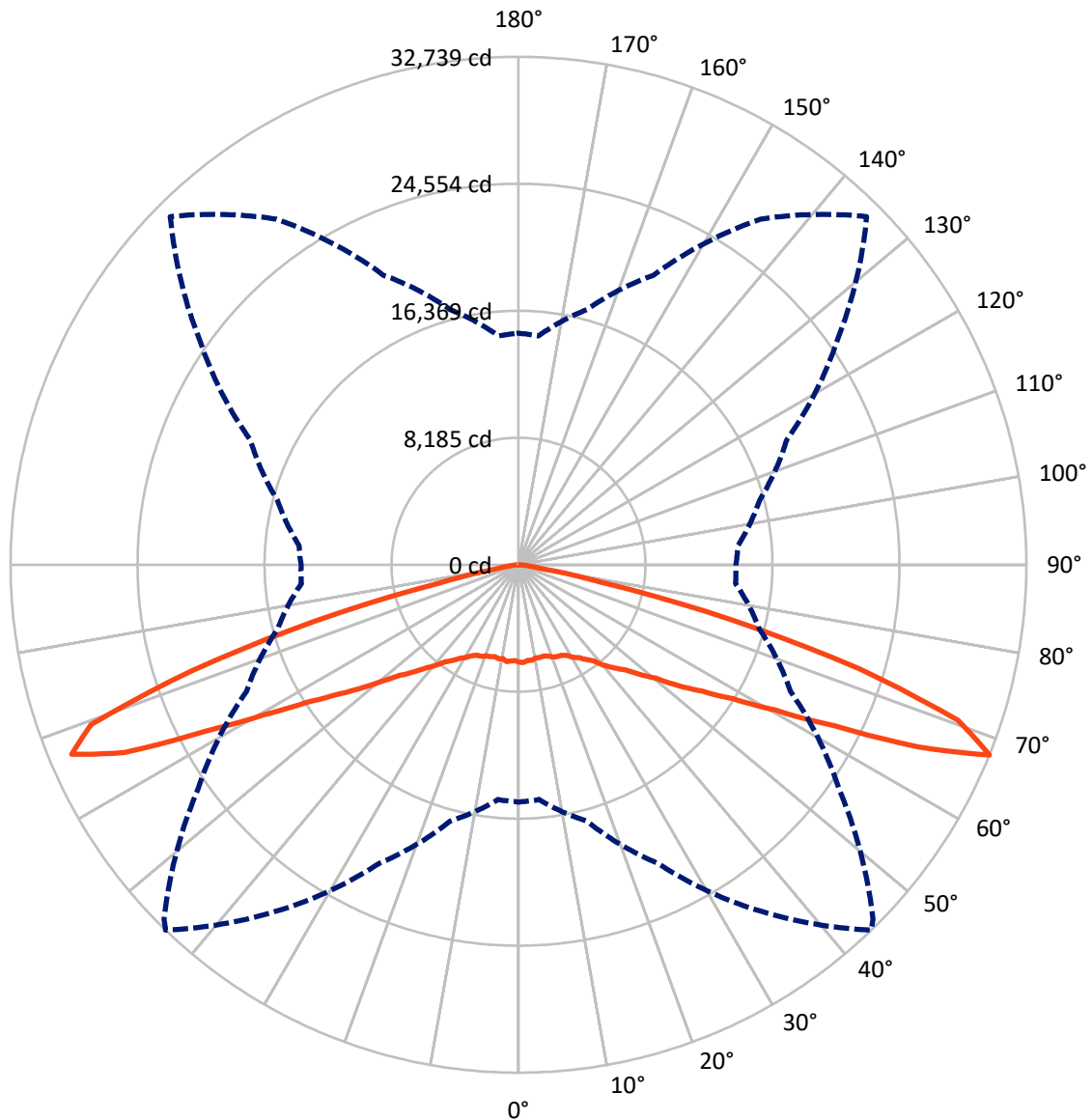
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

REPORT NUMBER: P574906
CATALOG NUMBER: EPH-VN-08-750-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P574906
 CATALOG NUMBER: EPH-VN-08-750-U-5MQ

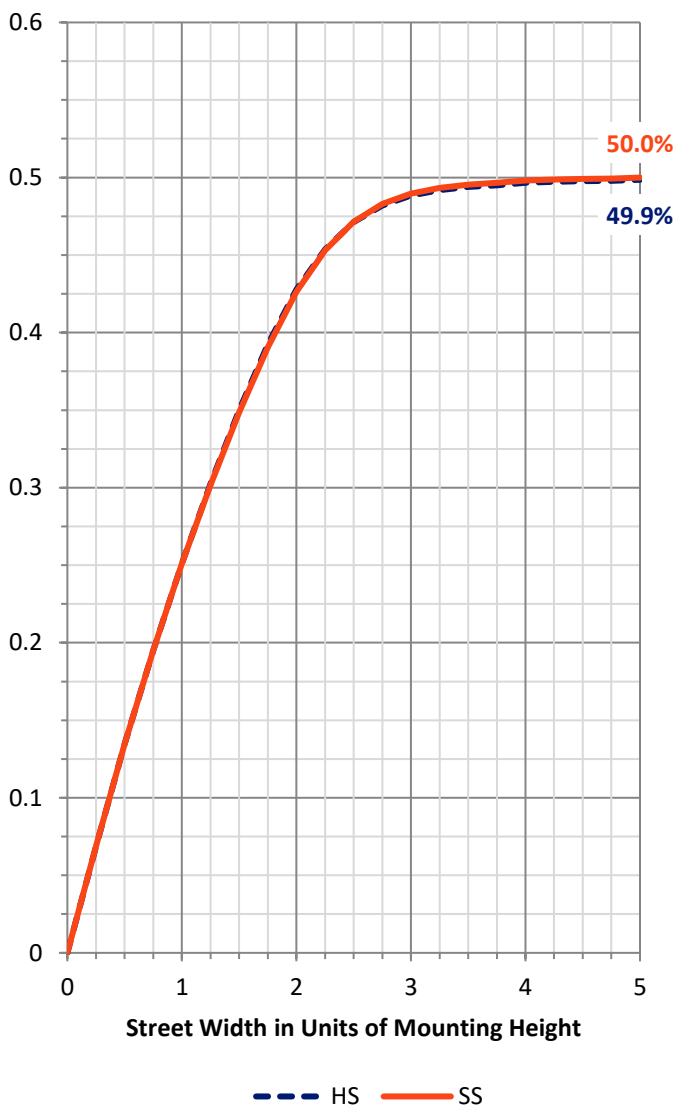
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28706.7	0.0	28706.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	28854.1	0.0	28854.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	57560.8	0.0	57560.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.0	1.0
10°-20°	1738.2	3.0
20°-30°	2956.0	5.1
30°-40°	4686.8	8.1
40°-50°	7642.3	13.3
50°-60°	13051.9	22.7
60°-70°	19851.9	34.5
70°-80°	6691.3	11.6
80°-90°	347.4	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	57560.8	100.0
0°-180°	57560.8	100.0

Coefficient of Utilization

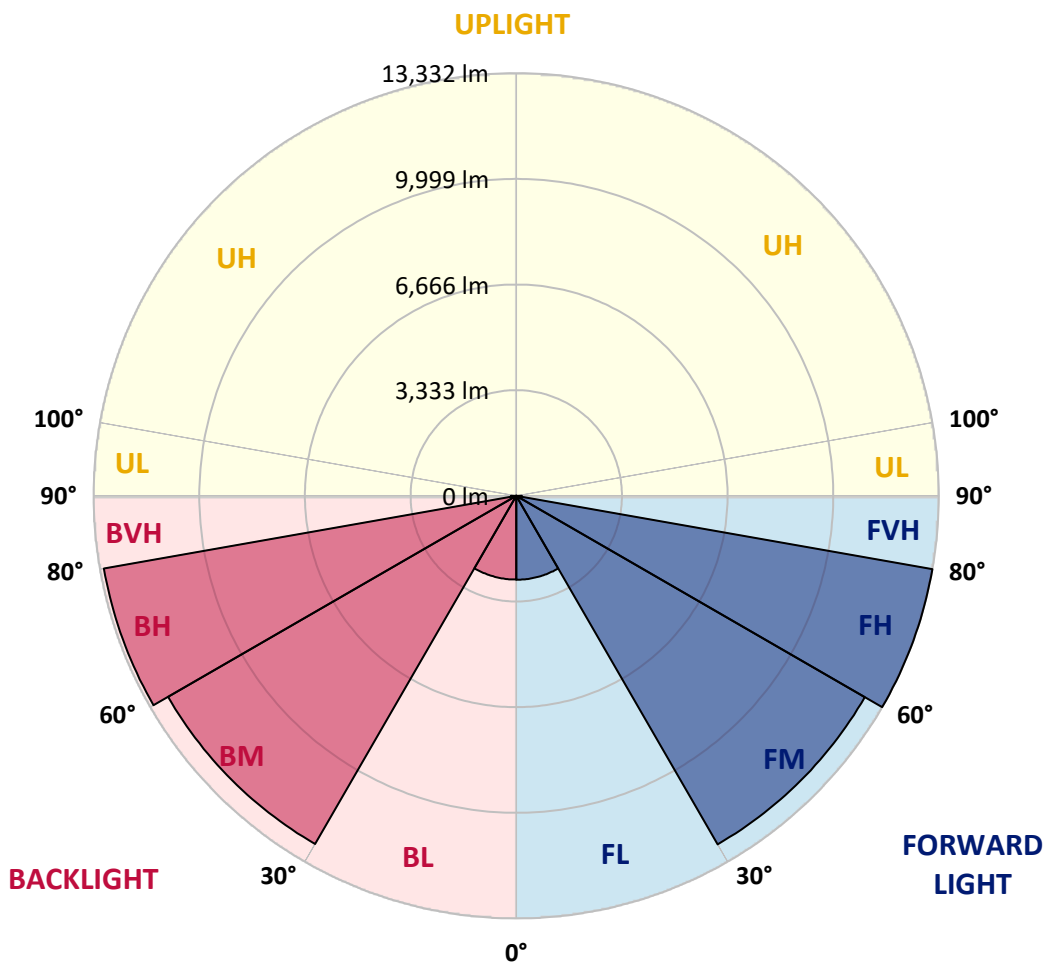


REPORT NUMBER: P574906
 CATALOG NUMBER: EPH-VN-08-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.3	4.6			
FM (30°-60°)	12697.4	22.1			
FH (60°-80°)	13331.7	23.2			G5
FVH (80°-90°)	177.7	0.3			G2/225
BL (0°-30°)	2641.9	4.6	B4/5000		
BM (30°-60°)	12683.6	22.0	B5		
BH (60°-80°)	13211.5	23.0	B5		G5
BVH (80°-90°)	169.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short





REPORT NUMBER: P574906
 CATALOG NUMBER: EPH-VN-08-750-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5
2.5°	6143.0	6215.3	6267.8	6261.2	6281.0	6300.7	6274.4	6313.8	6287.5	6333.5
5°	6261.2	6241.5	6248.1	6208.7	6300.7	6195.5	6195.5	6248.1	6313.8	6235.0
7.5°	6189.0	6175.8	6143.0	6202.1	6221.8	6221.8	6274.4	6175.8	6287.5	6313.8
10°	6110.1	6037.9	6136.4	6195.5	6208.7	6103.6	6149.6	6175.8	6143.0	6175.8
12.5°	6044.4	6083.9	6083.9	6083.9	6064.1	6136.4	6182.4	6175.8	6110.1	6169.3
15°	6037.9	6018.2	6077.3	6129.8	6097.0	6110.1	6129.8	6189.0	6064.1	6090.4
17.5°	6031.3	6057.6	6077.3	6070.7	6182.4	6182.4	6162.7	6123.3	6221.8	6169.3
20°	6057.6	6037.9	6090.4	6110.1	6189.0	6346.7	6287.5	6254.7	6202.1	6136.4
22.5°	6090.4	6077.3	6149.6	6235.0	6386.1	6425.5	6418.9	6379.5	6287.5	6208.7
25°	6208.7	6090.4	6169.3	6333.5	6386.1	6464.9	6517.5	6464.9	6340.1	6359.8
27.5°	6386.1	6366.4	6471.5	6583.2	6537.2	6609.5	6563.5	6602.9	6609.5	6510.9
30°	6596.3	6537.2	6602.9	6819.7	6839.4	6918.2	6839.4	6734.3	6767.1	6681.7
32.5°	6898.5	6878.8	7003.7	7148.2	7174.5	7135.1	7095.6	7154.8	7016.8	6951.1
35°	7095.6	7181.0	7332.2	7443.9	7529.3	7489.8	7509.6	7450.4	7483.3	7345.3
37.5°	7680.4	7647.5	7680.4	7870.9	7890.6	7870.9	7890.6	7956.3	7910.3	7792.1
40°	8232.3	8179.7	8258.5	8475.3	8462.2	8527.9	8396.5	8468.8	8468.8	8245.4
42.5°	8646.2	8823.6	8915.5	9092.9	9158.6	9099.5	9073.2	9086.4	9230.9	8968.1
45°	9500.3	9493.7	9769.6	9868.2	9684.2	9671.1	9618.5	9776.2	9874.8	9723.7
47.5°	10426.6	10472.6	10630.3	10669.7	10781.4	10577.8	10577.8	10597.5	10945.7	10590.9
50°	11261.0	11320.2	11635.5	11944.3	11734.1	11517.3	11602.7	11707.8	11898.3	11563.3
52.5°	12272.8	12594.8	12805.0	12969.3	13120.4	12969.3	12772.1	12890.4	13264.9	12818.1
55°	13731.4	13987.6	14184.7	14486.9	14611.8	14408.1	14388.4	14375.2	14585.5	14112.4
57.5°	15360.7	15255.6	15571.0	16037.5	16490.8	16293.7	16234.6	16247.7	16300.3	15630.1
60°	17384.3	17502.6	17877.1	18284.4	18764.0	19040.0	18652.3	18429.0	18474.9	17561.7
62.5°	18540.6	18803.4	19651.0	21050.4	22016.2	22876.9	22936.0	21484.0	20511.7	18737.7
65°	17982.2	17942.8	19539.3	22127.9	25787.4	28290.6	27916.1	24394.5	20997.8	18179.3
67.5°	15295.0	15189.9	17121.5	21227.8	27272.2	32738.5	32311.4	25215.8	19355.3	16083.4
70°	9855.1	9828.8	11924.6	16182.0	24348.6	30057.9	30215.6	22903.1	15754.9	11780.1
72.5°	3580.7	3797.5	5012.9	8698.7	16536.8	22995.1	23093.7	16957.3	9060.1	5446.6
75°	1320.6	1360.0	1583.4	2825.1	7535.8	14119.0	14486.9	8225.7	3219.3	1773.9
77.5°	762.1	768.7	847.5	1051.2	2233.8	5512.3	5735.6	2496.6	1248.3	946.1
80°	519.0	512.5	597.9	683.3	893.5	1563.7	1662.2	1044.6	788.4	657.0
82.5°	302.2	321.9	440.2	486.2	545.3	689.9	703.0	650.4	591.3	486.2
85°	184.0	151.1	243.1	269.4	315.4	308.8	308.8	354.8	381.1	341.6
87.5°	46.0	46.0	59.1	65.7	85.4	65.7	72.3	138.0	184.0	170.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574906

CATALOG NUMBER: EPH-VN-08-750-U-5MQ

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6287.5	0°	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5	6287.5
6359.8	2.5°	6300.7	6281.0	6294.1	6366.4	6320.4	6182.4	6215.3	6287.5	6228.4	6195.5
6281.0	5°	6274.4	6313.8	6267.8	6281.0	6326.9	6215.3	6235.0	6326.9	6287.5	6300.7
6320.4	7.5°	6281.0	6300.7	6261.2	6202.1	6202.1	6294.1	6241.5	6254.7	6195.5	6294.1
6195.5	10°	6241.5	6189.0	6143.0	6175.8	6162.7	6136.4	6116.7	6156.1	6097.0	6182.4
6064.1	12.5°	6123.3	6136.4	6123.3	6110.1	6136.4	6202.1	6097.0	6110.1	6018.2	6031.3
6090.4	15°	6077.3	6116.7	6103.6	6175.8	6208.7	6110.1	6189.0	6110.1	6037.9	5998.4
6097.0	17.5°	6097.0	6156.1	6136.4	6189.0	6129.8	6202.1	6215.3	6182.4	6097.0	6064.1
6136.4	20°	6116.7	6097.0	6123.3	6215.3	6300.7	6228.4	6228.4	6208.7	6129.8	6083.9
6195.5	22.5°	6162.7	6129.8	6169.3	6241.5	6267.8	6379.5	6281.0	6235.0	6103.6	5985.3
6241.5	25°	6254.7	6274.4	6300.7	6274.4	6418.9	6405.8	6392.6	6359.8	6156.1	6162.7
6392.6	27.5°	6432.1	6320.4	6353.2	6510.9	6530.6	6583.2	6517.5	6576.6	6359.8	6366.4
6622.6	30°	6648.9	6530.6	6635.7	6773.7	6767.1	6865.7	6832.8	6846.0	6694.9	6609.5
6846.0	32.5°	6885.4	6872.3	6938.0	7023.4	7056.2	7108.8	7102.2	7102.2	7010.2	6786.8
7299.3	35°	7148.2	7240.2	7319.0	7411.0	7424.1	7489.8	7397.9	7411.0	7319.0	7154.8
7673.8	37.5°	7667.2	7660.7	7746.1	7857.8	7870.9	7818.3	7890.6	7857.8	7732.9	7621.2
8199.4	40°	8271.7	8140.3	8219.1	8481.9	8501.6	8409.6	8403.1	8396.5	8304.5	8061.4
8869.5	42.5°	8797.3	8968.1	8955.0	9040.4	8981.2	8935.2	9099.5	9007.5	8935.2	8679.0
9684.2	45°	9474.0	9526.6	9697.4	9973.3	9690.8	9690.8	9802.5	9730.2	9690.8	9500.3
10406.9	47.5°	10315.0	10360.9	10702.6	10722.3	10538.3	10413.5	10761.7	10774.9	10610.6	10466.1
11405.6	50°	11300.5	11320.2	11629.0	11944.3	11740.7	11504.1	11858.9	11996.9	11629.0	11431.9
12621.0	52.5°	12384.5	12325.4	12581.6	13172.9	12975.8	12903.6	13284.6	13317.5	12818.1	12509.3
13843.1	55°	13632.8	13554.0	14250.4	14651.2	14526.3	14394.9	14565.8	14644.6	14243.8	13737.9
15426.4	57.5°	15249.1	15288.5	15636.7	16030.9	16234.6	16267.4	16346.2	16267.4	15860.1	15347.6
17246.3	60°	16865.3	16983.5	17660.3	18402.7	18468.4	19046.5	18941.4	18547.2	17969.0	17239.8
17397.5	62.5°	17463.2	17364.6	18455.2	20268.6	21812.5	22870.3	22403.8	21004.4	19664.1	18337.0
16379.1	65°	16260.8	16503.9	17988.8	20827.0	24177.7	28362.8	25879.4	22009.6	19302.8	17588.0
14046.7	67.5°	14013.9	14197.8	16083.4	19079.4	25025.3	31739.8	27193.4	20590.5	17023.0	14802.3
9763.1	70°	9763.1	9855.1	11701.2	15630.1	22692.9	29952.8	24532.5	15814.1	11753.8	9368.9
4014.3	72.5°	3928.9	4152.3	5367.7	9414.9	16753.6	22758.6	16517.1	8298.0	4875.0	3626.7
1445.4	75°	1452.0	1458.5	1714.8	3239.0	7956.3	14303.0	7450.4	2667.4	1557.1	1274.6
873.8	77.5°	841.0	834.4	893.5	1169.5	2306.1	5584.5	2115.6	1044.6	847.5	762.1
551.9	80°	525.6	519.0	611.0	775.3	1011.8	1530.8	893.5	650.4	571.6	492.8
361.4	82.5°	335.1	341.6	479.6	571.6	617.6	676.7	519.0	459.9	427.1	282.5
203.7	85°	216.8	197.1	335.1	381.1	341.6	302.2	289.1	243.1	223.4	138.0
105.1	87.5°	98.6	105.1	170.8	190.5	124.8	72.3	72.3	52.6	52.6	32.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
6287.5
6189.0
6228.4
6162.7
6090.4
6077.3
6070.7
6097.0
6083.9
6097.0
6143.0
6235.0
6432.1
6819.7
7207.3
7535.8
8008.9
8633.0
9322.9
10249.3
11162.5
12581.6
13915.3
15183.4
17272.6
18435.5
17397.5
14920.6
9500.3
3291.6
1215.5
729.3
492.8
275.9
151.1
32.9
0.0

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